

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P883102

Luminaire Tested: **NAV-SB3B-750-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18419 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

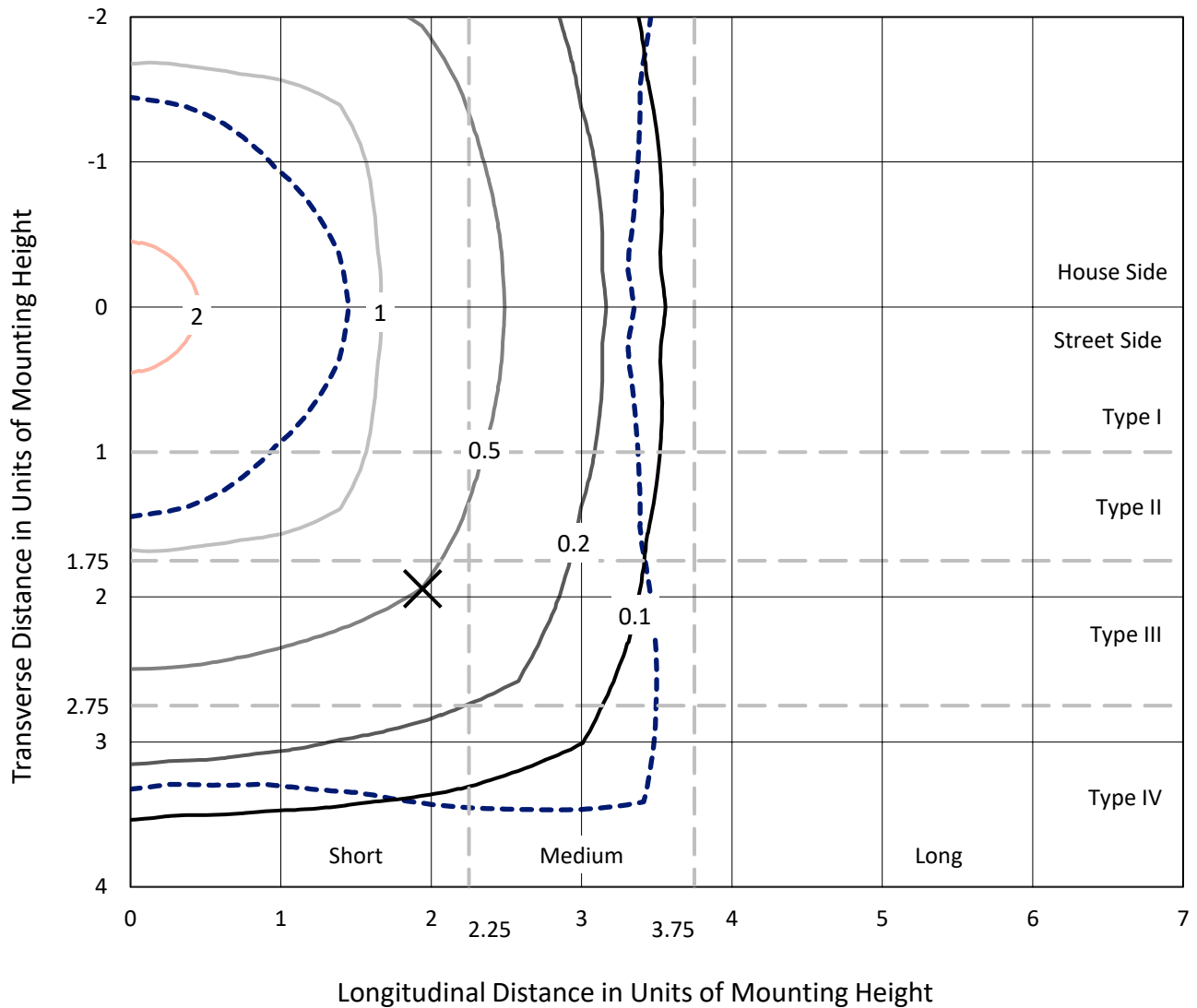
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

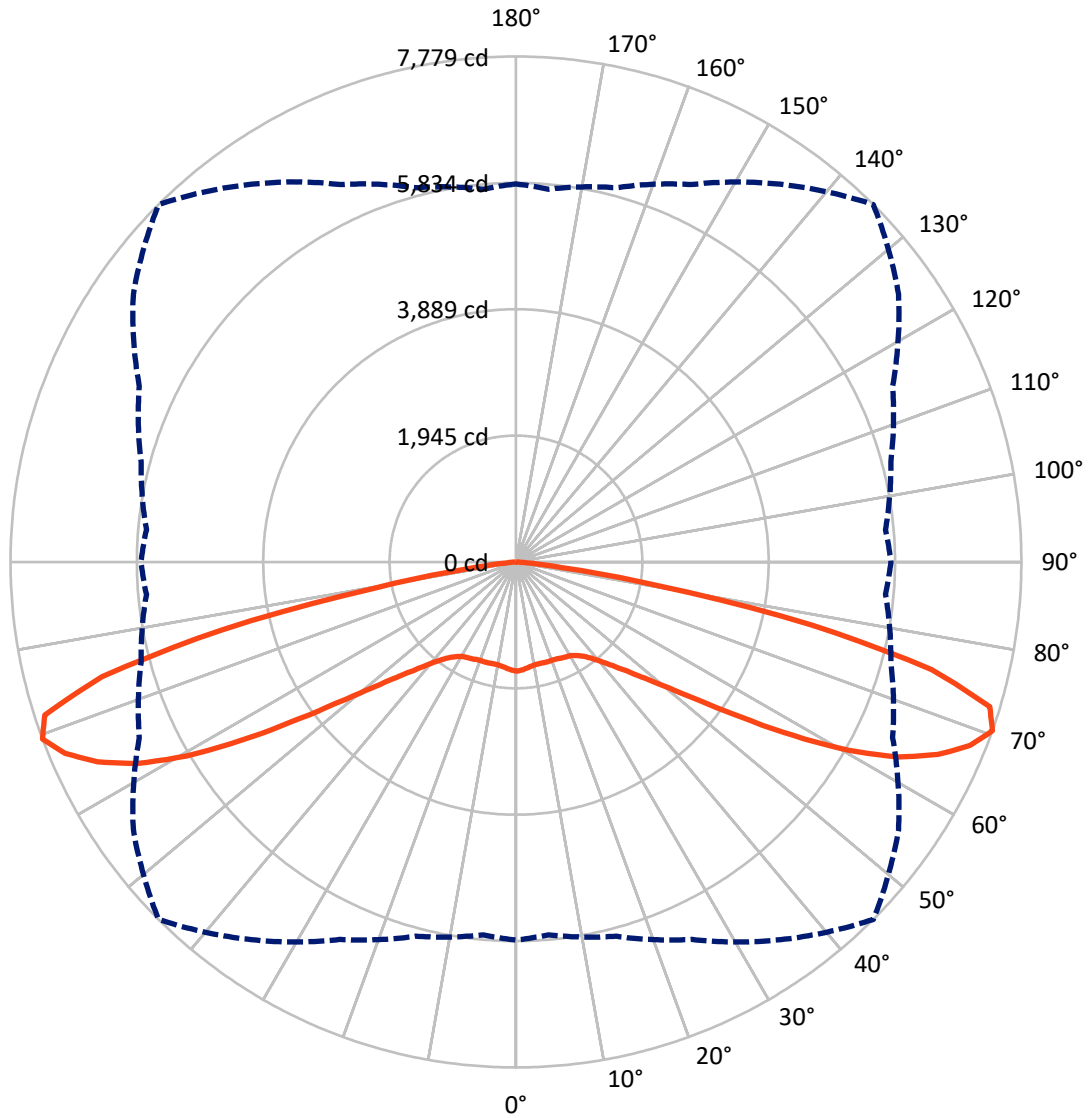
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9209.5	0.0	9209.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9209.5	0.0	9209.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18419.0	0.0	18419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	0.8
10°-20°	458.9	2.5
20°-30°	763.7	4.1
30°-40°	1155.0	6.3
40°-50°	1919.3	10.4
50°-60°	3621.6	19.7
60°-70°	6115.3	33.2
70°-80°	4018.4	21.8
80°-90°	210.5	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18419.0	100.0
0°-180°	18419.0	100.0

Coefficient of Utilization



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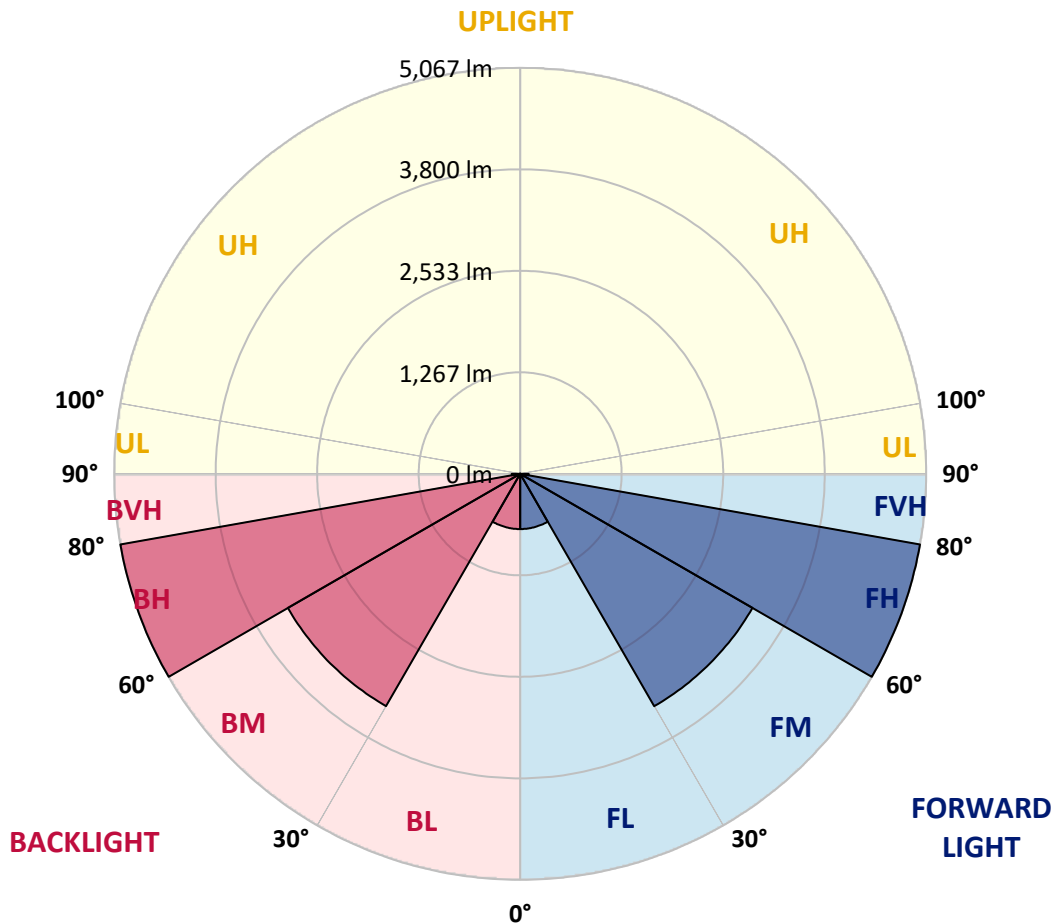
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.5	3.7			
FM (30°-60°)	3347.9	18.2			
FH (60°-80°)	5066.8	27.5			G3/7500
FVH (80°-90°)	105.3	0.6			G2/225
BL (0°-30°)	689.5	3.7	B2/1000		
BM (30°-60°)	3347.9	18.2	B3/5000		
BH (60°-80°)	5066.8	27.5	B5		G3/7500
BVH (80°-90°)	105.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1680.2	1680.2	1680.2	1680.2	1680.2	1680.2	1680.2	1680.2	1680.2	1680.2	1680.2
2.5°	1669.7	1674.4	1672.5	1668.7	1668.7	1665.8	1668.7	1670.6	1673.5	1675.4	1674.4
5°	1647.6	1651.5	1650.5	1647.6	1648.6	1645.7	1647.6	1650.5	1652.4	1653.4	1653.4
7.5°	1628.5	1632.3	1630.4	1625.6	1625.6	1622.7	1623.7	1626.6	1629.4	1630.4	1630.4
10°	1623.7	1627.5	1621.8	1614.1	1611.3	1607.4	1608.4	1611.3	1617.0	1619.9	1619.9
12.5°	1625.6	1628.5	1622.7	1611.3	1608.4	1604.6	1604.6	1607.4	1615.1	1618.9	1619.9
15°	1631.4	1634.2	1625.6	1613.2	1610.3	1607.4	1606.5	1610.3	1618.9	1625.6	1626.6
17.5°	1641.9	1644.8	1631.4	1614.1	1610.3	1611.3	1610.3	1613.2	1626.6	1639.0	1639.0
20°	1651.5	1653.4	1635.2	1614.1	1610.3	1611.3	1610.3	1616.0	1633.3	1650.5	1651.5
22.5°	1654.3	1656.2	1639.0	1620.8	1618.0	1618.9	1618.0	1623.7	1640.0	1657.2	1657.2
25°	1655.3	1658.2	1644.8	1630.4	1635.2	1637.1	1635.2	1636.1	1648.6	1663.9	1663.0
27.5°	1669.7	1673.5	1661.0	1648.6	1651.5	1650.5	1653.4	1656.2	1665.8	1681.1	1677.3
30°	1699.3	1702.2	1691.7	1679.2	1677.3	1670.6	1679.2	1688.8	1699.3	1712.7	1709.9
32.5°	1748.2	1753.9	1740.5	1727.1	1718.5	1714.6	1721.4	1737.6	1752.0	1766.3	1760.6
35°	1829.5	1833.4	1820.9	1796.0	1780.7	1780.7	1786.5	1807.5	1830.5	1848.7	1842.0
37.5°	1944.4	1949.2	1927.2	1897.5	1874.5	1874.5	1882.2	1904.2	1938.7	1964.5	1954.9
40°	2084.2	2090.9	2063.1	2032.5	2010.5	2006.6	2016.2	2041.1	2073.7	2106.2	2095.7
42.5°	2252.7	2260.3	2224.0	2197.2	2179.9	2179.9	2184.7	2207.7	2237.4	2277.6	2274.7
45°	2468.1	2481.5	2431.7	2404.9	2388.6	2392.5	2395.3	2415.4	2442.2	2488.2	2486.3
47.5°	2724.7	2738.1	2685.4	2657.7	2654.8	2673.0	2661.5	2675.8	2690.2	2742.9	2727.5
50°	3015.7	3038.7	3002.3	3000.4	3006.1	3039.6	3012.8	3020.5	3004.2	3037.7	3017.6
52.5°	3371.9	3405.4	3398.7	3410.2	3474.3	3543.2	3482.0	3455.1	3393.9	3404.4	3369.0
55°	3803.6	3854.4	3863.9	3932.9	4078.4	4219.1	4088.9	3980.7	3850.5	3826.6	3789.3
57.5°	4294.8	4335.0	4380.9	4521.7	4793.5	5043.4	4793.5	4554.2	4349.3	4300.5	4266.0
60°	4823.2	4873.0	4917.1	5124.8	5528.8	5880.2	5521.2	5141.1	4870.1	4804.1	4746.6
62.5°	5390.9	5455.1	5485.7	5716.5	6187.5	6606.8	6194.2	5733.7	5433.1	5362.2	5304.8
65°	5935.7	5988.3	6022.8	6268.9	6718.8	7139.1	6749.5	6295.7	5986.4	5893.6	5847.6
67.5°	6189.4	6218.1	6302.4	6581.0	7055.8	7535.5	7136.2	6610.6	6265.0	6102.3	6104.2
70°	5817.9	5759.5	5962.5	6408.6	7096.0	7778.6	7187.9	6395.2	5972.1	5707.8	5771.0
72.5°	4495.8	4395.3	4747.6	5510.6	6636.5	7623.5	6682.4	5553.7	4966.8	4430.7	4563.8
75°	2446.1	2332.2	2818.5	3783.5	5292.3	6607.8	5413.9	3891.7	3138.3	2427.9	2585.9
77.5°	690.3	647.2	1039.7	1830.5	3183.3	4639.4	3305.8	1870.7	1233.1	731.4	812.8
80°	211.6	204.9	277.6	551.4	1351.8	2222.1	1299.2	558.1	353.3	223.1	235.5
82.5°	125.4	114.9	137.9	201.0	344.7	697.9	335.1	209.7	168.5	113.0	122.5
85°	71.8	67.0	81.4	97.7	115.8	148.4	96.7	99.6	90.0	60.3	63.2
87.5°	29.7	26.8	31.6	30.6	26.8	34.5	25.8	30.6	36.4	23.9	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)